Release notes for ENDF/B Development n-055_Cs_134 evaluation

April 26, 2017

- `checkr` Warnings:

  1. A previous error halted parsing of the current section
     MAT=5528, MF= 1, MT=451 (1): Parsing stopped

     ```
     ERROR(S) FOUND IN MAT=5528, MF= 1, MT=451
         SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER     260 TO     351
     ```

- `checkr` Errors:

  1. A variable is outside the allowed ENDF range
     MAT=5528, MF= 1, MT=451 (0): Variable range

     ```
     ERROR(S) FOUND IN MAT=5528, MF= 1, MT=451
         MOD =    1 OUT OF RANGE    0 -    0          RECORD NUMBER    260
     ```

  2. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=5528, MF= 2, MT=151 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=5528, MF= 2, MT=151
         SECTION  2/151 NOT IN DIRECTORY             RECORD NUMBER    353
     ```

  3. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=5528, MF= 3, MT= 1 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=5528, MF= 3, MT=  1
         SECTION  3/  1 NOT IN DIRECTORY             RECORD NUMBER     709
     ```

  4. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=5528, MF= 3, MT= 2 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=5528, MF= 3, MT=  2
         SECTION  3/  2 NOT IN DIRECTORY             RECORD NUMBER     745
     ```

  5. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=5528, MF= 3, MT= 4 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=5528, MF= 3, MT=  4
         SECTION  3/  4 NOT IN DIRECTORY             RECORD NUMBER     769
     ```

  6. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=5528, MF= 3, MT= 16 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 16
         SECTION  3/ 16 NOT IN DIRECTORY             RECORD NUMBER     795
     ```

  7. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=5528, MF= 3, MT= 17 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 17
           SECTION  3/ 17 NOT IN DIRECTORY                RECORD NUMBER     806
```

8. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT{=}5528,\ MF{=}\ 3,\ MT{=}\ 22\ (0){:}\ Directory\ (b)$

```
        ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 22
           SECTION  3/ 22 NOT IN DIRECTORY                RECORD NUMBER     812
```

9. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT{=}5528,\ MF{=}\ 3,\ MT{=}\ 28\ (0){:}\ Directory\ (b)$

```
        ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 28
           SECTION  3/ 28 NOT IN DIRECTORY                RECORD NUMBER     826
```

10. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT{=}5528,\ MF{=}\ 3,\ MT{=}\ 32\ (0){:}\ Directory\ (b)$

```
        ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 32
           SECTION  3/ 32 NOT IN DIRECTORY                RECORD NUMBER     838
```

11. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT{=}5528,\ MF{=}\ 3,\ MT{=}\ 33\ (0){:}\ Directory\ (b)$

```
        ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 33
           SECTION  3/ 33 NOT IN DIRECTORY                RECORD NUMBER     847
```

12. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT{=}5528,\ MF{=}\ 3,\ MT{=}\ 51\ (0){:}\ Directory\ (b)$

```
        ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 51
           SECTION  3/ 51 NOT IN DIRECTORY                RECORD NUMBER     855
```

13. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT{=}5528,\ MF{=}\ 3,\ MT{=}\ 52\ (0){:}\ Directory\ (b)$

```
        ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 52
           SECTION  3/ 52 NOT IN DIRECTORY                RECORD NUMBER     881
```

14. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT{=}5528,\ MF{=}\ 3,\ MT{=}\ 53\ (0){:}\ Directory\ (b)$

```
        ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 53
           SECTION  3/ 53 NOT IN DIRECTORY                RECORD NUMBER     905
```

15. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT{=}5528,\ MF{=}\ 3,\ MT{=}\ 54\ (0){:}\ Directory\ (b)$

```
    ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 54
        SECTION  3/ 54 NOT IN DIRECTORY                RECORD NUMBER     928
```

16. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT= 55 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 55
        SECTION  3/ 55 NOT IN DIRECTORY                RECORD NUMBER     950
```

17. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT= 56 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 56
        SECTION  3/ 56 NOT IN DIRECTORY                RECORD NUMBER     972
```

18. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT= 57 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 57
        SECTION  3/ 57 NOT IN DIRECTORY                RECORD NUMBER     993
```

19. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT= 58 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 58
        SECTION  3/ 58 NOT IN DIRECTORY                RECORD NUMBER    1014
```

20. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT= 59 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 59
        SECTION  3/ 59 NOT IN DIRECTORY                RECORD NUMBER    1035
```

21. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT= 60 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 60
        SECTION  3/ 60 NOT IN DIRECTORY                RECORD NUMBER    1055
```

22. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT= 61 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 61
        SECTION  3/ 61 NOT IN DIRECTORY                RECORD NUMBER    1075
```

23. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT= 62 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 62
          SECTION  3/ 62 NOT IN DIRECTORY                    RECORD NUMBER    1094
```

24. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT= 63 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 63
          SECTION  3/ 63 NOT IN DIRECTORY                    RECORD NUMBER    1113
```

25. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT= 64 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 64
          SECTION  3/ 64 NOT IN DIRECTORY                    RECORD NUMBER    1131
```

26. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT= 65 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 65
          SECTION  3/ 65 NOT IN DIRECTORY                    RECORD NUMBER    1149
```

27. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT= 66 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 66
          SECTION  3/ 66 NOT IN DIRECTORY                    RECORD NUMBER    1167
```

28. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT= 67 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 67
          SECTION  3/ 67 NOT IN DIRECTORY                    RECORD NUMBER    1184
```

29. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT= 68 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 68
          SECTION  3/ 68 NOT IN DIRECTORY                    RECORD NUMBER    1201
```

30. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT= 69 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 69
          SECTION  3/ 69 NOT IN DIRECTORY                    RECORD NUMBER    1217
```

31. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT= 70 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 70
    SECTION  3/ 70 NOT IN DIRECTORY                    RECORD NUMBER    1233
```

32. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT= 71 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 71
    SECTION  3/ 71 NOT IN DIRECTORY                    RECORD NUMBER    1249
```

33. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT= 72 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 72
    SECTION  3/ 72 NOT IN DIRECTORY                    RECORD NUMBER    1264
```

34. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT= 73 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 73
    SECTION  3/ 73 NOT IN DIRECTORY                    RECORD NUMBER    1279
```

35. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT= 74 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 74
    SECTION  3/ 74 NOT IN DIRECTORY                    RECORD NUMBER    1294
```

36. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT= 75 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 75
    SECTION  3/ 75 NOT IN DIRECTORY                    RECORD NUMBER    1308
```

37. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT= 76 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 76
    SECTION  3/ 76 NOT IN DIRECTORY                    RECORD NUMBER    1322
```

38. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT= 77 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 77
    SECTION  3/ 77 NOT IN DIRECTORY                    RECORD NUMBER    1335
```

39. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT= 78 (0): Directory (b)

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```
      ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 78
         SECTION  3/ 78 NOT IN DIRECTORY                RECORD NUMBER    1348
```

40. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT= 79 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 79
         SECTION  3/ 79 NOT IN DIRECTORY                RECORD NUMBER    1361
```

41. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT= 91 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5528, MF= 3, MT= 91
         SECTION  3/ 91 NOT IN DIRECTORY                RECORD NUMBER    1373
```

42. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT=102 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5528, MF= 3, MT=102
         SECTION  3/102 NOT IN DIRECTORY                RECORD NUMBER    1385
```

43. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT=103 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5528, MF= 3, MT=103
         SECTION  3/103 NOT IN DIRECTORY                RECORD NUMBER    1412
```

44. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT=104 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5528, MF= 3, MT=104
         SECTION  3/104 NOT IN DIRECTORY                RECORD NUMBER    1428
```

45. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT=105 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5528, MF= 3, MT=105
         SECTION  3/105 NOT IN DIRECTORY                RECORD NUMBER    1441
```

46. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT=106 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5528, MF= 3, MT=106
         SECTION  3/106 NOT IN DIRECTORY                RECORD NUMBER    1454
```

47. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 3, MT=107 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=5528, MF= 3, MT=107
        SECTION  3/107 NOT IN DIRECTORY                    RECORD NUMBER    1464
```

48. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 2 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=5528, MF= 4, MT=  2
        SECTION  4/  2 NOT IN DIRECTORY                    RECORD NUMBER    1481
```

49. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 16 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 16
        SECTION  4/ 16 NOT IN DIRECTORY                    RECORD NUMBER    1701
```

50. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 17 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 17
        SECTION  4/ 17 NOT IN DIRECTORY                    RECORD NUMBER    1712
```

51. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 22 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 22
        SECTION  4/ 22 NOT IN DIRECTORY                    RECORD NUMBER    1723
```

52. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 28 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 28
        SECTION  4/ 28 NOT IN DIRECTORY                    RECORD NUMBER    1734
```

53. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 32 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 32
        SECTION  4/ 32 NOT IN DIRECTORY                    RECORD NUMBER    1745
```

54. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 33 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 33
        SECTION  4/ 33 NOT IN DIRECTORY                    RECORD NUMBER    1756
```

55. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 51 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 51
          SECTION  4/ 51 NOT IN DIRECTORY                 RECORD NUMBER    1767
```

56. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5528, MF= 4, MT= 52 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 52
          SECTION  4/ 52 NOT IN DIRECTORY                 RECORD NUMBER    1795
```

57. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5528, MF= 4, MT= 53 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 53
          SECTION  4/ 53 NOT IN DIRECTORY                 RECORD NUMBER    1823
```

58. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5528, MF= 4, MT= 54 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 54
          SECTION  4/ 54 NOT IN DIRECTORY                 RECORD NUMBER    1848
```

59. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5528, MF= 4, MT= 55 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 55
          SECTION  4/ 55 NOT IN DIRECTORY                 RECORD NUMBER    1876
```

60. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5528, MF= 4, MT= 56 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 56
          SECTION  4/ 56 NOT IN DIRECTORY                 RECORD NUMBER    1901
```

61. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5528, MF= 4, MT= 57 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 57
          SECTION  4/ 57 NOT IN DIRECTORY                 RECORD NUMBER    1929
```

62. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5528, MF= 4, MT= 58 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 58
          SECTION  4/ 58 NOT IN DIRECTORY                 RECORD NUMBER    1957
```

63. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5528, MF= 4, MT= 59 (0): Directory (b)

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```
     ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 59
        SECTION  4/ 59 NOT IN DIRECTORY                 RECORD NUMBER    1982
```

64. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 60 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 60
        SECTION  4/ 60 NOT IN DIRECTORY                 RECORD NUMBER    2010
```

65. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 61 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 61
        SECTION  4/ 61 NOT IN DIRECTORY                 RECORD NUMBER    2038
```

66. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 62 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 62
        SECTION  4/ 62 NOT IN DIRECTORY                 RECORD NUMBER    2066
```

67. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 63 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 63
        SECTION  4/ 63 NOT IN DIRECTORY                 RECORD NUMBER    2091
```

68. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 64 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 64
        SECTION  4/ 64 NOT IN DIRECTORY                 RECORD NUMBER    2116
```

69. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 65 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 65
        SECTION  4/ 65 NOT IN DIRECTORY                 RECORD NUMBER    2144
```

70. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 66 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 66
        SECTION  4/ 66 NOT IN DIRECTORY                 RECORD NUMBER    2172
```

71. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 67 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 67
           SECTION  4/ 67 NOT IN DIRECTORY                    RECORD NUMBER    2197
```

72. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 68 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 68
           SECTION  4/ 68 NOT IN DIRECTORY                    RECORD NUMBER    2225
```

73. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 69 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 69
           SECTION  4/ 69 NOT IN DIRECTORY                    RECORD NUMBER    2250
```

74. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 70 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 70
           SECTION  4/ 70 NOT IN DIRECTORY                    RECORD NUMBER    2275
```

75. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 71 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 71
           SECTION  4/ 71 NOT IN DIRECTORY                    RECORD NUMBER    2300
```

76. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 72 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 72
           SECTION  4/ 72 NOT IN DIRECTORY                    RECORD NUMBER    2328
```

77. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 73 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 73
           SECTION  4/ 73 NOT IN DIRECTORY                    RECORD NUMBER    2356
```

78. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 74 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 74
           SECTION  4/ 74 NOT IN DIRECTORY                    RECORD NUMBER    2381
```

79. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 75 (0): Directory (b)

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```
      ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 75
          SECTION  4/ 75 NOT IN DIRECTORY                 RECORD NUMBER    2409
```

80. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 76 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 76
          SECTION  4/ 76 NOT IN DIRECTORY                 RECORD NUMBER    2437
```

81. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 77 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 77
          SECTION  4/ 77 NOT IN DIRECTORY                 RECORD NUMBER    2462
```

82. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 78 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 78
          SECTION  4/ 78 NOT IN DIRECTORY                 RECORD NUMBER    2490
```

83. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 79 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 79
          SECTION  4/ 79 NOT IN DIRECTORY                 RECORD NUMBER    2515
```

84. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 4, MT= 91 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5528, MF= 4, MT= 91
          SECTION  4/ 91 NOT IN DIRECTORY                 RECORD NUMBER    2540
```

85. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 5, MT= 16 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5528, MF= 5, MT= 16
          SECTION  5/ 16 NOT IN DIRECTORY                 RECORD NUMBER    2569
```

86. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 5, MT= 17 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=5528, MF= 5, MT= 17
          SECTION  5/ 17 NOT IN DIRECTORY                 RECORD NUMBER    2633
```

87. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=5528, MF= 5, MT= 22 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 5, MT= 22
            SECTION  5/ 22 NOT IN DIRECTORY              RECORD NUMBER    2658
```

88. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5528, MF= 5, MT= 28 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 5, MT= 28
            SECTION  5/ 28 NOT IN DIRECTORY              RECORD NUMBER    2862
```

89. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5528, MF= 5, MT= 32 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 5, MT= 32
            SECTION  5/ 32 NOT IN DIRECTORY              RECORD NUMBER    2989
```

90. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5528, MF= 5, MT= 33 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 5, MT= 33
            SECTION  5/ 33 NOT IN DIRECTORY              RECORD NUMBER    3053
```

91. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5528, MF= 5, MT= 91 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=5528, MF= 5, MT= 91
            SECTION  5/ 91 NOT IN DIRECTORY              RECORD NUMBER    3093
```

- `psyche` Warnings:

1. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 134. L = 0 / STRENGTH FUNCTION IS 8.61404E-06 / STRENGTH FUNCTION 8.61404E-06 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
    FILE  2
        SECTION 151
            ISOTOPE MASS = 134. L =  0
                    STRENGTH FUNCTION IS  8.61404E-06
                                STRENGTH FUNCTION 8.61404E-06
    ... [1 more lines]
```

2. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.80000E+02. STRENGTH FUNCTION IS 1.40005E-04 / STRENGTH FUNCTION 1.40005E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
    FILE  2
        SECTION 151
            ENERGY =  1.80000E+02. STRENGTH FUNCTION IS  1.40005E-04
                        STRENGTH FUNCTION 1.40005E-04
                                        LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
    ... [2 more lines]
```

3. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.80000E+02. STRENGTH FUNCTION IS 1.40005E-04 / STRENGTH FUNCTION 1.39996E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
FILE  2
   SECTION 151
        ENERGY =  1.80000E+02. STRENGTH FUNCTION IS  1.40005E-04
                        STRENGTH FUNCTION 1.39996E-04
                                        LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
... [4 more lines]
```

4. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.80000E+02. STRENGTH FUNCTION IS 1.40005E-04 / STRENGTH FUNCTION 1.40003E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
FILE  2
   SECTION 151
        ENERGY =  1.80000E+02. STRENGTH FUNCTION IS  1.40005E-04
                        STRENGTH FUNCTION 1.40003E-04
                                        LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
... [1 more lines]
```

5. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.80000E+02. STRENGTH FUNCTION IS 1.40005E-04 / STRENGTH FUNCTION 1.40002E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
FILE  2
   SECTION 151
        ENERGY =  1.80000E+02. STRENGTH FUNCTION IS  1.40005E-04
                        STRENGTH FUNCTION 1.40002E-04
                                        LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
... [1 more lines]
```

6. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.80000E+02. STRENGTH FUNCTION IS 1.40005E-04 / STRENGTH FUNCTION 1.39994E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
FILE  2
   SECTION 151
        ENERGY =  1.80000E+02. STRENGTH FUNCTION IS  1.40005E-04
                        STRENGTH FUNCTION 1.39994E-04
                                        LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
... [1 more lines]
```

7. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.80000E+02. STRENGTH FUNCTION IS 1.40005E-04 / STRENGTH FUNCTION 1.39998E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
FILE  2
   SECTION 151
```

13

```
               ENERGY =  1.80000E+02. STRENGTH FUNCTION IS  1.40005E-04
                          STRENGTH FUNCTION 1.39998E-04
                                       LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
```

8. Strength function in URR not in agreement with PSYCHE's expectations
   FILE 2 / SECTION 151 / ENERGY = 1.80000E+02. STRENGTH FUNCTION IS 1.40005E-04 / STRENGTH FUNCTION 1.40000E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
     FILE  2
        SECTION 151
               ENERGY =  1.80000E+02. STRENGTH FUNCTION IS  1.40005E-04
                          STRENGTH FUNCTION 1.40000E-04
                                       LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
     ... [2 more lines]
```

9. Strength function in URR not in agreement with PSYCHE's expectations
   FILE 2 / SECTION 151 / ENERGY = 1.80000E+02. STRENGTH FUNCTION IS 1.40005E-04 / STRENGTH FUNCTION 1.40001E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
     FILE  2
        SECTION 151
               ENERGY =  1.80000E+02. STRENGTH FUNCTION IS  1.40005E-04
                          STRENGTH FUNCTION 1.40001E-04
                                       LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
     ... [3 more lines]
```

10. Strength function in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 1.80000E+02. STRENGTH FUNCTION IS 1.40005E-04 / STRENGTH FUNCTION 1.39993E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
     FILE  2
        SECTION 151
               ENERGY =  1.80000E+02. STRENGTH FUNCTION IS  1.40005E-04
                          STRENGTH FUNCTION 1.39993E-04
                                       LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
```

11. Strength function in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 1.80000E+02. STRENGTH FUNCTION IS 1.40005E-04 / STRENGTH FUNCTION 1.40004E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
     FILE  2
        SECTION 151
               ENERGY =  1.80000E+02. STRENGTH FUNCTION IS  1.40005E-04
                          STRENGTH FUNCTION 1.40004E-04
                                       LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
     ... [2 more lines]
```

12. Strength function in URR not in agreement with PSYCHE's expectations
    FILE 2 / SECTION 151 / ENERGY = 1.80000E+02. STRENGTH FUNCTION IS 1.40004E-04 / STRENGTH FUNCTION 1.40004E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
FILE  2
   SECTION 151
        ENERGY =  1.80000E+02. STRENGTH FUNCTION IS  1.40004E-04
                        STRENGTH FUNCTION 1.40004E-04
                                        LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
... [3 more lines]
```

13. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.80000E+02. STRENGTH FUNCTION IS 1.40004E-04 / STRENGTH FUNCTION 1.40003E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
FILE  2
   SECTION 151
        ENERGY =  1.80000E+02. STRENGTH FUNCTION IS  1.40004E-04
                        STRENGTH FUNCTION 1.40003E-04
                                        LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
```

14. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.80000E+02. STRENGTH FUNCTION IS 1.40004E-04 / STRENGTH FUNCTION 1.40002E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
FILE  2
   SECTION 151
        ENERGY =  1.80000E+02. STRENGTH FUNCTION IS  1.40004E-04
                        STRENGTH FUNCTION 1.40002E-04
                                        LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
... [6 more lines]
```

15. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.80000E+02. STRENGTH FUNCTION IS 1.40004E-04 / STRENGTH FUNCTION 1.39996E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
FILE  2
   SECTION 151
        ENERGY =  1.80000E+02. STRENGTH FUNCTION IS  1.40004E-04
                        STRENGTH FUNCTION 1.39996E-04
                                        LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
... [3 more lines]
```

16. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.80000E+02. STRENGTH FUNCTION IS 1.40004E-04 / STRENGTH FUNCTION 1.39997E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
FILE  2
   SECTION 151
        ENERGY =  1.80000E+02. STRENGTH FUNCTION IS  1.40004E-04
                        STRENGTH FUNCTION 1.39997E-04
                                        LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
```

17. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.80000E+02. STRENGTH FUNCTION IS 1.40004E-04 / STRENGTH FUNCTION 1.40000E-04 / LIES OUTSIDE LIMITS

1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
    FILE  2
       SECTION 151
             ENERGY =  1.80000E+02. STRENGTH FUNCTION IS   1.40004E-04
                            STRENGTH FUNCTION 1.40000E-04
                                              LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
    ... [3 more lines]
```

18. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.80000E+02. STRENGTH FUNCTION IS 1.40004E-04 / STRENGTH FUNCTION 1.40008E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
    FILE  2
       SECTION 151
             ENERGY =  1.80000E+02. STRENGTH FUNCTION IS   1.40004E-04
                            STRENGTH FUNCTION 1.40008E-04
                                              LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
```

19. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.80000E+02. STRENGTH FUNCTION IS 1.40004E-04 / STRENGTH FUNCTION 1.39998E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
    FILE  2
       SECTION 151
             ENERGY =  1.80000E+02. STRENGTH FUNCTION IS   1.40004E-04
                            STRENGTH FUNCTION 1.39998E-04
                                              LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
```

20. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.80000E+02. STRENGTH FUNCTION IS 1.40004E-04 / STRENGTH FUNCTION 1.40007E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
    FILE  2
       SECTION 151
             ENERGY =  1.80000E+02. STRENGTH FUNCTION IS   1.40004E-04
                            STRENGTH FUNCTION 1.40007E-04
                                              LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
```

21. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.80000E+02. STRENGTH FUNCTION IS 1.40004E-04 / STRENGTH FUNCTION 1.39995E-04 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
    FILE  2
       SECTION 151
             ENERGY =  1.80000E+02. STRENGTH FUNCTION IS   1.40004E-04
                            STRENGTH FUNCTION 1.39995E-04
                                              LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
```

22. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.80000E+02. STRENGTH FUNCTION IS 1.40004E-04 / STRENGTH FUNCTION 1.39993E-04 / LIES OUTSIDE LIMITS

1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

```
FILE  2
   SECTION 151
         ENERGY =  1.80000E+02. STRENGTH FUNCTION IS  1.40004E-04
                          STRENGTH FUNCTION 1.39993E-04
                                       LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04
```

- `fudge-4.0` Warnings:

  1. Missing a channel with a particular angular momenta combination
     resonances / resolved / MultiLevel_BreitWigner (Error # 0): missingResonanceChannel

     ```
     WARNING: Missing a channel with angular momenta combination L = 0, J = 2.5 and S = 2.5 for "capture"
     ```

  2. Potential scattering hasn't converged, you need more L's!
     resonances / resolved (Error # 1): potentialScatteringNotConverged

     ```
     WARNING: Potential scattering hasn't converged by L=0 at E=180.0 eV, xs[0]/xs[0]=100.0% > 0.1%
     ```

  3. Cross section does not match sum of linked reaction cross sections
     crossSectionSum label 0: total (Error # 0): CS Sum.

     ```
     WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.22%
     ```

  4. Cross section does not match sum of linked reaction cross sections
     crossSectionSum label 1: (z,n) (Error # 0): CS Sum.

     ```
     WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.12%
     ```

- `fudge-4.0` Errors:

  1. Calculated and tabulated Q values disagree.
     reaction label 31: n[multiplicity:'2'] + Cs133 (Error # 0): Q mismatch

     ```
     WARNING: Calculated and tabulated Q-values disagree: -6323567.356155396 eV vs -6.8961e6 eV!
     ```

  2. Calculated and tabulated Q values disagree.
     reaction label 32: n[multiplicity:'3'] + Cs132 (Error # 0): Q mismatch

     ```
     WARNING: Calculated and tabulated Q-values disagree: -15309917.46980286 eV vs -1.58862e7 eV!
     ```

  3. Calculated and tabulated Q values disagree.
     reaction label 33: n + H1 + Xe133 (Error # 0): Q mismatch

     ```
     WARNING: Calculated and tabulated Q-values disagree: -5968580.871185303 eV vs -6540640. eV!
     ```

  4. Calculated and tabulated Q values disagree.
     reaction label 34: n + H2 + Xe132 (Error # 0): Q mismatch

     ```
     WARNING: Calculated and tabulated Q-values disagree: -10178450.31323242 eV vs -1.06826e7 eV!
     ```

  5. Calculated and tabulated Q values disagree.
     reaction label 35: n + H3 + Xe131 (Error # 0): Q mismatch

17

```
WARNING: Calculated and tabulated Q-values disagree: -12857804.27980042 eV vs -1.34386e7 eV!
```

6. Calculated and tabulated Q values disagree.
   reaction label 36: Cs135 + gamma (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: 9329962.33454895 eV vs 8827390. eV!
```

7. Calculated and tabulated Q values disagree.
   reaction label 37: n + He4 + I130 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -1815744.816268921 eV vs -2.4339e6 eV!
```

8. Calculated and tabulated Q values disagree.
   reaction label 38: H1 + Xe134_s (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: 2583627.811965942 eV vs 1998460. eV!
```

9. Calculated and tabulated Q values disagree.
   reaction label 39: H2 + Xe133_s (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -3744014.770248413 eV vs -4230520. eV!
```

10. Calculated and tabulated Q values disagree.
    reaction label 40: H3 + Xe132_s (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -3921217.372619629 eV vs -4497470. eV!
```

11. Calculated and tabulated Q values disagree.
    reaction label 41: He3 + I132_s (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -7483218.443817139 eV vs -8058820. eV!
```

12. Calculated and tabulated Q values disagree.
    reaction label 42: He4 + I131_s (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: 6767557.138214111 eV vs 6.1962e6 eV!
```

- njoy2012   Warnings:

  1. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
     groupr...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)

```
  ---message from conver---cannot do complete particle production for mt= 16
                      only mf4/mf5 provided
```

  2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
     groupr...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)

```
  ---message from conver---cannot do complete particle production for mt= 17
                      only mf4/mf5 provided
```

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
   groupr...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)

```
   ---message from conver---cannot do complete particle production for mt= 22
                        only mf4/mf5 provided
```

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
   groupr...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)

```
   ---message from conver---cannot do complete particle production for mt= 28
                        only mf4/mf5 provided
```

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
   groupr...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)

```
   ---message from conver---cannot do complete particle production for mt= 32
                        only mf4/mf5 provided
```

6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
   groupr...compute self-shielded group-averaged cross-sections (5): GROUPR/conver (0)

```
   ---message from conver---cannot do complete particle production for mt= 33
                        only mf4/mf5 provided
```

7. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
   groupr...compute self-shielded group-averaged cross-sections (6): GROUPR/conver (0)

```
   ---message from conver---cannot do complete particle production for mt= 91
                        only mf4/mf5 provided
```